## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Canceled)
- 2. (Original) A coating material for a thermal barrier coating having excellent corrosion resistance and heat resistance comprising a substrate, an undercoat made of an aluminum-containing heat-resistant alloy,  $Al_2O_3$  layer produced on the surface of the undercoat by preferentially oxidizing Al in the components of the undercoat in the presence of  $Cr_2O_3$  layer and  $Cr_2O_3$  layer formed thereon as a middle layer on the undercoat, and a top coat made of  $ZrO_2$  based ceramic.
- (Currently Amended) A coating material for a thermal barrier coating according to claim 4 2, wherein the Cr<sub>2</sub>O<sub>3</sub> layer as a middle layer is a chemical densified film having a thickness of 0.2-10 µm.
- 4. (Original) A coating material for a thermal barrier coating according to claim 2, wherein the  $Al_2O_3$  layer has a thickness of 1-30  $\mu m$ .
- 5. (Currently Amended) A coating material for a thermal barrier coating according to claim + 2, wherein the undercoat is a heat-resistant alloy having an Al content of 3-24 mass% and represented by the following chemical formula:

## MCrAlX

wherein M: one or more selected from Co, Ni and Fe.

X: one or more selected from Y, Hf, Ta, Cs, Ce, La, Th, W, Si, Pt, Mn and B.

- 6. (Currently Amended) A coating material for a thermal barrier coating according to claim + 2, wherein the undercoat is one formed by a spraying process or an electron beam deposition process at a thickness of 30-500 μm.
- 7. (Currently Amended) A coating material for a thermal barrier coating according to claim ± 2, wherein the top coat is a ZrO<sub>2</sub> based ceramic coating containing 5-40 mass% of at least one oxide selected from Y<sub>2</sub>O<sub>3</sub>, CaO, CeO<sub>2</sub>, MgO, SiO<sub>2</sub>, Yb<sub>2</sub>O<sub>3</sub> and Sc<sub>2</sub>O<sub>3</sub> and formed by a spraying process or an electron beam deposition process at a thickness of 50-600 um.
- 8. (Withdrawn) A method of producing a coating material for a thermal barrier coating having excellent corrosion resistance and heat resistance, which comprises forming an undercoat made of a heat-resistant alloy having an Al content of 3-24 mass% on a surface of a substrate through spraying process or an electron beam deposition process, forming a middle layer of Cr<sub>2</sub>O<sub>3</sub> layer having a thickness of 0.2-10 μm by repeating a procedure of applying an aqueous mixed solution of one or more of chromic anhydride, ammonium chromate and ammonium bichromate and firing under heating at 500-900 K for 1-5 hours one time or plural times, and forming a top coat of ZrO<sub>2</sub> based ceramic on the middle layer through a spraying process or an electron beam deposition process.
- 9. (Withdrawn) A method of producing a coating material for thermal barrier coating having excellent corrosion resistance and heat resistance, which comprises forming an undercoat made of a heat-resistant alloy having an Al content of 3-24 mass% on a surface of a substrate through spraying process or an electron beam deposition process, forming a middle layer of Cr<sub>2</sub>O<sub>3</sub> layer having a thickness of 0.2-10 µm by repeating a procedure of applying an aqueous mixed solution of one or more of chromic anhydride, ammonium chromate and ammonium bichromate and firing under heating at 500-900 K for 1-5 hours one time or plural times, heating

in an atmosphere or under vacuum or in an inert gas atmosphere at 1200-1500 K for 1-20 hours to form an  $Al_2O_3$  layer produced through preferential oxidation reaction of Al contained in the under coat on the surface of the undercoat just beneath  $Cr_2O_3$  layer as a part of the middle layer, and forming a top coat of  $ZrO_2$  based ceramic on the middle layer.

- 10. (Previously Presented) A coating material for a thermal barrier coating according to claim 2, wherein the  $\rm Cr_2O_3$  layer as a middle layer is a chemical densified film having a thickness of 0.2-10  $\mu m$  obtained by applying an aqueous solution of one or more selected from chromic anhydride, ammonium chromate and ammonium bichromate and firing it.
- 11. (Previously Presented) A coating material for a thermal barrier coating according to claim 2, wherein the undercoat is a heat-resistant alloy having an Al content of 3-24 mass% and represented by the following chemical formula:

MCrAlX

wherein M: one or more selected from Co. Ni and Fe.

X: one or more selected from Y, Hf, Ta, Cs, Ce, La, Th, W, Si, Pt, Mn and B.

- 12. (Previously Presented) A coating material for a thermal barrier coating according to claim 2, wherein the undercoat is one formed by a spraying process or an electron beam deposition process at a thickness of 30-500 µm.
- 13. (Previously Presented) A coating material for a thermal barrier coating according to claim 2, wherein the top coat is a ZrO<sub>2</sub> based ceramic coating containing 5-40 mass% of at least one oxide selected from Y<sub>2</sub>O<sub>3</sub>, CaO, CeO<sub>2</sub>, MgO, SiO<sub>2</sub>, Yb<sub>2</sub>O<sub>3</sub> and Sc<sub>2</sub>O<sub>3</sub> and formed by a spraying process or an electron beam deposition process at a thickness of 50-600 μm.